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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

HAROLD, JEFFEREY F

ART UNIT PAPER NUMBER

2644

DATE MAILED: 03/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/768,217	Applicant(s) LOFMARK, BENGT GUSTAV	
	Examiner Jefferey F Harold	Art Unit 2644	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 and 3-39 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1,3,8-11,13-17,19-26,28,31,32 and 34-39 is/are rejected.
- 7) ☒ Claim(s) 4-7,12,18,27,30 and 33 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see pages 9-12, filed October 21, 2004, with respect to the rejection(s) of claim(s) 1, 3, 23 and 24 under 35 U.S.C. 102(e) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of The Radio Amateur's Handbook (1973 fifth edition).

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. **Claims 1, 3, 8-11, 13-17, 19-26, 28, 31, 32, and 34-39** rejected under 35 U.S.C. 102(b) as being anticipated by The Radio Amateur's Handbook (1973, fifth edition), hereinafter referenced as the handbook.

Regarding **claim 1**, the handbook discloses electrical laws and circuits in chapter 2. Specifically the handbook discloses defining the Q of circuits and adding filters to electrical filter networks to provide specific characteristics to the network. In addition, the handbook discloses a filter for filtering signals in a telecommunications system and for impedance matching to a predetermined complex impedance, wherein the filter is complex so that it matches the predetermined complex impedance at least approximately, and wherein a resistance of at least one of the filter components is chosen such that the resistance assists in giving the characteristic impedance of the filter its complex character, as disclosed in pages 41-50 and exhibited in figure 2-53.

Regarding **claim 3**, the handbook discloses everything claimed as applied above (see claim 1), in addition, the handbook discloses wherein the resistance is in series with a at least one inductance assisting in giving the filter the complex characteristic impedance, as exhibited in figure 2-53.

Regarding **claim 8**, the handbook discloses everything claimed as applied above (see claim 1), in addition, the handbook discloses wherein the filter includes at least two cascade-coupled circuit segments of which at least one circuit segment includes at least the resistance that assistance in giving the characteristic impedance of the filter the complex character, as exhibited in figure 2-53.

Regarding **claim 9**, the handbook discloses everything claimed as applied above (see claim 1), in addition, the handbook discloses wherein resistance that assists in giving the characteristic impedance of the filter the complex character is comprised of at least resistor, as disclosed in pages 41-50 and exhibited in figure 2-53.

Regarding **claim 10**, the handbook discloses everything claimed as applied above (see claim 1), in addition, the handbook discloses wherein the resistance that assists in giving the characteristic impedance of the filter the complex character is comprised of at least one winding resistance of an inductor, as exhibited in figure 2-53.

Regarding **claim 11**, the handbook discloses everything claimed as applied above (see claim 1), in addition, the handbook discloses wherein the predetermined complex impedance is the characteristic impedance of the transmission line, as disclosed in pages 41-50 and exhibited in figure 2-53.

Regarding **claim 13**, the handbook discloses everything claimed as applied above (see claim 1), in addition, the handbook discloses wherein the filter includes at least one cable simulator section, which cable simulator section has a characteristic impedance that matches the predetermined complex impedance at least approximately; wherein the filter also includes at least one capacitor, wherein said capacitor assists in giving the filter at least one attenuation peak in a predetermined frequency range in co-action with said cable simulator section, as disclosed in pages 41-50 and exhibited in figure 2-53.

Regarding **claim 14**, the handbook discloses everything claimed as applied above (see claim 1), in addition, the handbook discloses wherein the filter includes at least one cable simulator section, which cable simulator section has a characteristic impedance that matches the predetermined complex impedance at least approximately; and in that the filter includes at least one coupled coil, which coupled coil includes an inductance in the cable simulator section and assists in giving the filter at least one attenuation peak in a predetermined frequency range, as disclosed in pages 41-50 and exhibited in figure 2-53.

Regarding **claim 15**, the handbook discloses everything claimed as applied above (see claim 1), in addition, the handbook discloses wherein the filter is a low-pass filter, as disclosed in pages 41-50 and exhibited in figure 2-53.

Regarding **claim 16**, the handbook discloses everything claimed as applied above (see claim 1), in addition, the handbook discloses wherein the filter includes a further pass band in a predetermined frequency range, the further pass band differing

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from the at least first pass band, as disclosed in pages 41-50 and exhibited in figure 2-53.

Regarding **claim 17**, the handbook discloses everything claimed as applied above (see claim 1), in addition, the handbook discloses a splitter filter, as disclosed in pages 41-50 and exhibited in figure 2-53.

Regarding **claims 19-26, 28, 31, 32, and 34-39** are interpreted and thus rejected for the reasons set forth above in the rejection of claims above.

Allowable Subject Matter

3. **Claims 4-7, 12, 18, 27, 30, and 33** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Vitenber (United States Patent 6,813,343) discloses a method and apparatus for filtering asymmetric DSL signals.

Prat et al. (United States Patent 6,804,349) discloses a hybrid transceiver circuit.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferey F Harold whose telephone number is 703-306-5836. The examiner can normally be reached on Monday - Friday 9 am - 5:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh H Tran can be reached on 703-305-4040. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



JFH
March 2, 2005



Jefferey F Harold
Examiner
Art Unit 2644